IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

LI et al.

Appl. No.: 10/791,905

iled:

March 4, 2004

or: Human G-Protein Chemokine Receptor (CCR5) HDGNR10

Confirmation No.: 3954

Art Unit:

1649

Examiner:

Ulm, John D.

Atty. Docket: 1488.115000P/EKS/HCC

Fifth Supplemental Information Disclosure Statement **Filing Under 37 C.F.R. § 1.97(b)**

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Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

Listed on accompanying IDS Form, PTO/SB/08B and PTO/SB/08A, are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Copies of the documents AS68-AS76 on Form PTO/SB/08B were cited by or submitted to the Office in an IDS that complies with 37 C.F.R. § 1.98(a)-(c) in Application No. 10/127,764, filed April 23, 2002, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d). A copy of the document AT76, which is cited on Form PTO/SB/08B is submitted. However, in accordance with 37 C.F.R. § 1.98(a)(2), copies of U.S. patents and patent application publications cited on the attached IDS Form PTO/SB/08A are not submitted.

It is expected that the examiner will review the prosecution and cited art in the parent Application No. 10/127,764 in accordance with MPEP 2001.06(b), and indicate in the next communication from the office that the art cited in the earlier prosecution history has been reviewed in connection with the present application.

The Examiner's attention is directed to the following co-pending U.S. Patent Applications, which are directed to related technical subject matter:

Application No. 11/518,949, inventors Roschke, V., et al., filed September 12, 2006; not published; listed as document AT76; and

Application No. 10/232,686, inventors Li, Y., et al., filed September 3, 2002; published on January 30, 2003 as U.S. Publication No. 2003/0023044 A1; listed as document US1.

The identification of these U.S. Patent Applications is not to be construed as a waiver of secrecy as to those applications now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited applications and the art cited therein during examination.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached IDS Forms based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may

LI *et al*. Appl. No. 10/791,905

- 3 -

not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

This Information Disclosure Statement is being filed before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed IDS Forms, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

belendlalson

Helene C. Carlson

Agent for Applicants

Registration No. 47,473

Date:

1100 New York Avenue, N.W. Washington, D.C. 20005-3934 (202) 371-2600

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INFORMATION DISCLOSURE				First Named Inventor	LI, Yi
STATE	STATEMENT BY APPLICANT			Art Unit	1649
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Sheet	1	of	1	Attorney Docket Number	1488.115000P/EKS/HCC

			U.S. PATENT DO	DCUMENTS	
Examiner Initials	Cite No. ¹	Document Number Number-Kind Code ^{2 (If Known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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English language Translation is attached.

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Complete if Known Substitute for form 1449/PTO 10/791,905 Application Number FIFTH SUPPLEMENTAL Filing Date March 4, 2004 INFORMATION DISCLOSURE LI, Yi First Named Inventor NT BY APPLICANT 1649 Art Unit 1 6 2006 e as many sheets as necessary) ULM, John D. **Examiner Name** 1488.115000P/EKS/HCC Sheet 3 Attorney Docket Number of

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	·	NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published	T ²
	AS68	Burman, A., et al., "A Chemokine-Dependent Stromal Induction Mechanism for Aberrant Lymphocyte Accumulation and Compromised Lymphatic Return in Rheumatoid Arthritis," <i>J. Immunol.</i> 174: 1693-1700, The American Association of Immunologists, Inc. (February 2005)	
	AT68	Chuntharapai, A., et al., "Neutralizing Monoclonal Antibodies to Human IL-8 Receptor A Map to the NH ₂ -Terminal Region of the Receptor," <i>J. Immunol.</i> 152: 1783-1789, The American Association of Immunologists, Inc. (February 1994)	
	AR69	DePaolo, R.W., et al., "CCR5 Regulates High Dose Oral Tolerance by Modulating CC Chemokine Ligand 2 Levels in the GALT," J. Immunol. 173: 314-320, The American Association of Immunologists, Inc. (July 2004)	
	AS69	Forssmann, U., et al., "Hemofiltrate CC chemokines with unique biochemical properties: HCC-1/CCL14a and HCC-2/CCL15," J. Leukoc. Biol. 70: 357-366, Society for Leukocyte Biology (September 2001)	
	AT69	Greiner, K., et al., "Anti-TNFα Therapy Modulates the Phenotype of Peripheral Blood CD4 ⁺ T Cells in Patients with Posterior Segment Intraocular Inflammation," <i>Invest. Ophthalmol. Vis. Sci. 45</i> : 170-176, Association for Research in Vision and Ophthalmology (January 2004)	
	AR70	Gu, L., et al., "Control of T _H 2 polarization by the chemokine monocyte chemoattractant protein-1," <i>Nature 404</i> : 407-411, Nature Publishing Group (March 2000)	
	AS70	Karpus, W.J., et al., "Monocyte Chemotactic Protein 1 Regulates Oral Tolerance Induction by Inhibition of T Helper Cell 1-related Cytokines," J. Exp. Med 187: 733-741, The Rockefeller University Press (March 1998)	
	AT70	Houri, J.M. and O'Sullivan, F.X., "Animal models in rheumatoid arthritis," <i>Curr. Opin. Rheumatol.</i> 7: 201-205, Current Science (May 1995)	
	AR71	Joosten, L.A.B., et al., "Dual Role of IL-12 in Early and Late Stages of Murine Collagen Type II Arthritis," J. Immunol. 159: 4094-4102, The American Association of Immunologists, Inc. (October 1997)	
	AS71	Ishida, H., et al., "Continuous Administration of Anti-Interleukin 10 Antibodies Delays Onset of Autoimmunity in NZB/W F ₁ Mice," J. Exp. Med. 179: 305-310, The Rockefeller University Press (January 1994)	
Examiner		Date	

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FIFTH SUPPLEMENTAL	Filing Date	March 4, 2004		
INFORMATION DISCLOSURE	First Named Inventor	LI, Yi		
STATEMENT BY APPLICANT	Art Unit	1649		
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Sheet 2 of 3	Attorney Docket Number	1488.115000P/EKS/HCC		

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	AT71	Mono	clonal Antib	ody Adr		mic Lup	nti-Interleukin-10 bus Erythematosus," & Wilkins Inc. (August	
	AR72	Inflam			s Chemotactic Cy <i>Med. 338</i> : 436-445		That Mediate chusetts Medical Society	
	AS72	Luther	r, S.A. and Centiation," N	Cyster, J.	G., "Chemokines as unol. 2: 102-107, Na	regulate ture Am	ors of T cell nerica, Inc. (February 2001)	
	AT72	Trypa	o, A.P., <i>et al</i> nosoma cruz ito Oswaldo	zi-elicite	d myocarditis," Men	: a poter	ntial therapeutic target for Oswaldo Cruz 100: 93-96,	
	AR73	of exp		ıtoimmu			te induction and resolution bkine 32: 81-84, Elsevier	
	AS73	the ch	emokine rec	eptor CO	lar cloning and radio CR5 from rhesus ma Elsevier Inc. (Decem	caque a	binding characterization of nd human," <i>Biochem</i> .	
	AT73	cytoki	nes and proi	inflamma			oduction of Th2-type Allergy 33: 1544-1554,	
	AR74	Monk Bovir	teys (<i>Macae</i> ne Type II (<i>ca mula</i> Collager		1 Immu 524-53	duced in Rhesus nization with Native 34, The United States and	
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STATEMENT BY APPLICANT (Use as many sheets as necessary)				Art Unit	1649		
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Sheet	3	of	3	Attorney Docket Number	1488.115000P/EKS/HCC		

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T ²
	AR75	't Hart, B.A., et al., "Induction of type II collagen-specific antibody production in blood lymphocyte cultures of Rhesus monkeys (Macaca mulatta) with collagen-induced arthritis using the immobilized native antigen," Clin. Exp. Immunol. 83: 375-378, Blackwell Scientific Publications (1991)	
	AS75	Weiner, H.L., "Oral tolerance: immune mechanisms and treatment of autoimmune diseases," <i>Immunol. Today 18</i> : 335-343, Elsevier Science Ltd. (July 1997)	
	AT75	Wu, Z., et al., "Reactive Oxygen Species in the Initiation of IL-4 Driven Autoimmunity as a Potential Therapeutic Target," Curr. Pharm. Des. 10: 899-913, Bentham Science Publishers Ltd. (March 2004)	
	AR76	Yin, Z., et al., "IL-10 Regulates Murine Lupus," J. Immunol. 169: 2148-2155, The American Association of Immunologists, Inc. (August 2002)	
	AS76	O'Sullivan, F.X., et al., "Spontaneous Arthritis Models," in Mechanisms and Models in Rheumatoid Arthritis, Henderson, B., et al., ed., Academic Press, New York, NY, pp. 471-483 (April 1995)	
	AT76	Copy of co-pending U.S. Application No. 11/518,949, inventors Roschke, V. et al., filed September 12, 2006 (NOT PUBLISHED)	
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